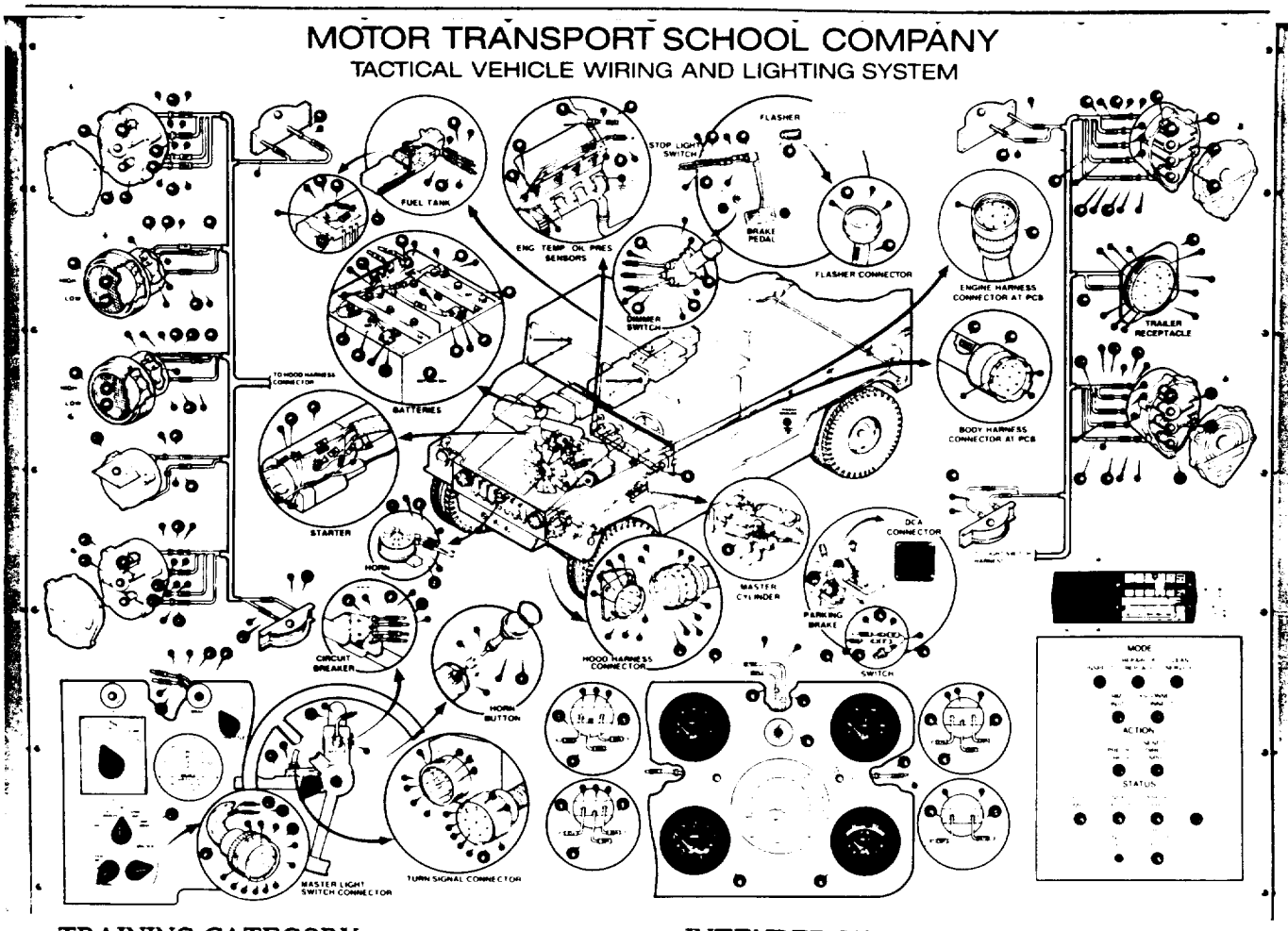
SUMMARY OF
TACTICAL VEHICLE WIRING AND LIGHTING SYS PANEL

January 1991 Device 11H118/4

NAVAL TRAINING SYSTEMS CENTER ORLANDO, FLORIDA



TRAINING CATEGORY:

Maintenance Training (Misc.)

ORIGINATING AGENCY

CMC

SECURITY CLASSIFICATION OF DEVICE:

Device 11H118/4 is unclassified.

PURPOSE OF DEVICE:

The purpose of the UMTS Tactical Vehicle Wiring and Lighting System panel is to provide realistic troubleshooting and operational training for maintenance and operations personnel tasked with support of this system.

INTENDED USE:

Device 11H118/4 is used in basic and advanced maintenance schools for class room training of enlisted personnel in troubleshooting and operation of the Tactical Vehicle Wiring and Lighting System.

FUNCTIONAL DESCRIPTION:

Device 11H118/4 is a 3 foot by 4 foot display panel which contains L.E.D.s, switches, potentiometers, gauges and meters, and various electrical probe points to simulate the operation of the Tactical Vehicle Wiring and Lighting System. Artwork of the tactical vehicle is silk screened on the panel with certain components broken out and enlarged. Video pictures from a videodisc are provided in response to certain actions performed on the panel.

The panel is used in conjunction with the Device 11H118 Student Station which contains a computer, videodisc players, video and computer monitors, and communication equipment. Software residing on the Student Station hard disk is automatically associated with it when the panel is mounted on a student station and power is applied. This software supports two basic modes, system normal operation and system malfunction.

In system normal operation all the simulated functions of the tactical vehicle act as would the actual equipment. The student performs normal preparation, start up, operation, and shutdown, as well as making many readings and tests during operation.

In system malfunction mode, a simulated malfunction is inserted into the equipment. The student isolates and repairs the malfunction using simulated test equipment. As with the system normal operation, all simulated functions will act as would the actual equipment were it to have the same fault. The student uses standard maintenance manuals to troubleshoot down to the faulty component. He then performs whatever actions are necessary to return the system to normal operation.

An instructor inserted lesson set contains up to ten such malfunctions inserted sequentially as individual lessons. Automatic scoring of student actions is provided. Hazardous actions are logged for review by the instructor. Lesson sets or individual lessons can be repeated at the instructors preference.

PHYSICAL INFORMATION

Number of pieces:
1 ea. Panel
16 panels per full system.

Sizes: 36" high x 48" deep x 3" wide

Weight: 65 lbs

EQUIPMENT REQUIRED (NOT SUPPLIED):

None

POWER REQUIREMENTS:

Student Station: 490 W 4.1 A

PUBLICATIONS FURNISHED:

Computer System Operators Manual CDRL No. A00C
Operation and Maintenance Manual NTSC P-5770 (U)
Commercial Documentation NTSC P-5770-S1, -S2 (U)
On-The-Job Training Handbook NTSC P-5774 (U)
Instructor Utilization Handbook NTSC P-5773 (U)

PERSONNEL:

Instructor: One wage grade instructor for MOS 3521 and 3529.
Operator: Instructor operated
Trainees: Class of up to 32
Maintenance: One hour planned maintenance per 40 hour week.

CONTRACT IDENTIFICATION:

Manufactured by Titan Severe Environment Systems Company Chatsworth, CA, under NAVTRASYSCEN Contract No. N61339-87-C-0050.